



#21

RECEIVED

DEC 06 2002

TECH CENTER 1600/2900

185254011.ST25.txt
SEQUENCE LISTING<110> Kaumaya, Pravin T.
Stevens, Vernon C.
Triozi, Pierre L.<120> Polypeptides and Polynucleotides for Enhancing Immune Reactivity to HER-2
Proteins

<130> 18525/04011

<140> 09/632,036

<141> 2000-08-03

<150> 60/146,869

<151> 1999-08-03

<160> 42

<170> PatentIn version 3.1

<210> 1

<211> 19

<212> PRT

<213> Homo sapiens

<400> 1

Thr Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu Thr His
1 5 10 15

Leu Asp Met

<210> 2

<211> 22

<212> PRT

<213> Homo sapiens

<400> 2

Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro Val Thr
1 5 10 15Gly Ala Ser Pro Gly Gly
20

<210> 3

<211> 22

<212> PRT

<213> Homo sapiens

<400> 3

Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala Leu Thr Leu
1 5 10 15

Ile Asp Thr Asn Arg Ser

20

<210> 4
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 4

Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys Ser Pro
 1 5 10 15

Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser Ser Glu Asp Cys Gln
 20 25 30

Ser Leu Thr
 35

<210> 5
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 5

Ala Leu Val Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro
 1 5 10 15

Glu Gly Arg Tyr Thr
 20

<210> 6
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 6

Pro Leu His Asn Gln Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Ala
 1 5 10 15

Glu Lys Cys Ser Lys Pro Cys Ala
 20

<210> 7
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 7

Pro Glu Ser Phe Asp Gly Asp Pro Ala Ser Asn Thr Ala Pro Leu Gln
 1 5 10 15

Pro Glu

<210> 8
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 8

Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro Asp Leu Ser Val Phe
 1 5 10 15

Gln Asn Leu Gln
 20

<210> 9
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 9

Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr Ala Asn Arg Pro
 1 5 10 15

Glu Asp Glu

<210> 10
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 10

Cys Leu Pro Cys His Pro Glu Cys Gln Pro Gln Asn Gly Ser Val Thr
 1 5 10 15

Cys Phe Gly Pro Glu Ala Asp Gln Cys Val Ala Cys Ala His Tyr Lys
 20 25 30

Asp Pro

<210> 11
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 11

Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Phe Pro Asp Glu Glu
 1 5 10 15

Gly Ala

<210> 12
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 12

Ile Asn Gly Thr His Ser Cys Val Asp Leu Asp Asp Lys Gly Cys Pro
 1 5 10 15

Ala Glu Gln Arg Ala Ser
 20

<210> 13
 <211> 19
 <212> PRT
 <213> Clostridium tetani

<400> 13

Asn Ser Val Asp Asp Ala Leu Ile Asn Ser Thr Ile Tyr Ser Tyr Phe
 1 5 10 15

Pro Ser Val

<210> 14
 <211> 17
 <212> PRT
 <213> Clostridium tetani

<400> 14

Pro Gly Ile Asn Gly Lys Ala Ile His Leu Val Asn Asn Gln Ser Ser
 1 5 10 15

Glu

<210> 15
 <211> 15
 <212> PRT
 <213> Clostridium tetani

<400> 15

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
 1 5 10 15

<210> 16
 <211> 21

<212> PRT
 <213> Clostridium tetani

<400> 16

Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser
 1 5 10 15

Ala Ser His Leu Glu
 20

<210> 17
 <211> 15
 <212> PRT
 <213> Measles virus

<400> 17

Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly Val
 1 5 10 15

<210> 18
 <211> 15
 <212> PRT
 <213> Hepatitis B virus

<400> 18

Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asn
 1 5 10 15

<210> 19
 <211> 20
 <212> PRT
 <213> Plasmodium falciparum

<400> 19

Thr Cys Gly Val Gly Val Arg Val Arg Ser Arg Val Asn Ala Ala Asn
 1 5 10 15

Lys Lys Pro Glu
 20

<210> 20
 <211> 4
 <212> PRT
 <213> Artificial sequence

<220>
 <223> synthetic sequence

<400> 20

Gly Pro Ser Leu
 1

<210> 21
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 21

Ile Leu Trp Lys Asp Ile Phe His Lys
 1 5

<210> 22
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 22

Ile Leu Lys Glu Thr Glu Leu Arg Lys
 1 5

<210> 23
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 23

Val Leu Arg Glu Asn Thr Ser Pro Lys
 1 5

<210> 24
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 24

Ala Ala Arg Pro Ala Gly Ala Thr Leu
 1 5

<210> 25
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 25

Leu Pro Ala Ser Pro Glu Thr His Leu
 1 5

<210> 26
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 26

Leu Pro Thr His Asp Pro Ser Leu Pro Leu
 1 5 10

<210> 27
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 27

Cys Arg Trp Gly Leu Leu Leu Ala Leu
 1 5

<210> 28
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 28

Arg Arg Phe Thr His Gln Ser Asp Val
 1 5

<210> 29
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 29

Gly Arg Ile Leu His Asn Gly Ala Tyr
 1 5

<210> 30
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 30

Thr Tyr Leu Pro Thr Asn Ala Ser Leu
 1 5

<210> 31
 <211> 9
 <212> PRT
 <213> Homo sapiens
 <400> 31

Glu Tyr Val Asn Ala Arg His Cys Leu
 1 5

<210> 32
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 32

Ala Tyr Ser Leu Thr Leu Gln Gly Leu
1 5

<210> 33

<211> 9

<212> PRT

<213> Homo sapiens

<400> 33

Ala Leu Cys Arg Trp Gly Leu Leu Leu
1 5

<210> 34

<211> 8

<212> PRT

<213> Homo sapiens

<400> 34

His Leu Tyr Gln Gly Cys Gln Val
1 5

<210> 35

<211> 9

<212> PRT

<213> Homo sapiens

<400> 35

Gln Leu Arg Ser Leu Thr Glu Ile Leu
1 5

<210> 36

<211> 9

<212> PRT

<213> Homo sapiens

<400> 36

Ile Leu His Asn Gly Ala Tyr Ser Leu
1 5

<210> 37

<211> 9

<212> PRT

<213> Homo sapiens

<400> 37

Ile Leu Leu Val Val Val Leu Gly Val
1 5

<210> 38

<211> 9
 <212> PRT
 <213> Homo sapiens

<400> 38

Asp Leu Thr Ser Thr Val Gln Leu Val
 1 5

<210> 39
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 39

Val Leu Val Lys Ser Pro Asn His Val
 1 5

<210> 40
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 40

Lys Ile Phe Gly Ser Leu Ala Phe Leu
 1 5

<210> 41
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 41

Ile Ile Ser Ala Val Val Gly Ile Leu
 1 5

<210> 42
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 42

Ile Asn Gly Thr His Ser Cys Val Asp Leu Asp Asp Lys Gly Cys Pro
 1 5 10 15

Ala Glu Gln Arg
 20